MI2992 POWER ANALYSER

– CLASS A POWER QUALITY ANALYSER



The MI 2992 Power Analyser is a handheld, three-phase power quality analyser featuring a large 10.1" TFT colour touchscreen display. Its intuitive step-by-step wizard allows users to quickly detect power quality parameters without complex setup. It is designed for both long-term recording and troubleshooting and supports various distribution system configurations. The new platform enables comprehensive data analysis directly on the device, including live measurements and historical data review. Users can access trends for all recorded parameters, as well as events, transients, RVCs, inrush currents, and more. For more advanced reporting and analysis, the MPVision PC software provides local or remote data transfer, automated post-processing, and report generation. Additionally, remote access via VNC Viewer allows full control of the instrument from any computer, regardless of location.

KEY FEATURES

- Full compliance with power quality standard IEC 61000-4-30 Class A;
- High-speed measurement sampling frequency;
- Predefined tailored recorder profiles for specific customised reports (minimum recording interval 200 ms);
- User-defined recorder profiles;
- Built-in wide range power supply (85 – 500 Vac); directly powered from voltage (P-N or P-P) terminals; and Li-ion battery;
- Simultaneous capture of events, inrushes, user defined alarms, RVC's, transients, signalling;
- NTP time synchronisation;
- Automatic firmware download;
- Remote access via VNC Viewer;
- Online scope view for voltages and currents;
- Easy to identify potential power quality problems via live measurements screen;
- Measuring of harmonic components of up to the 63rd;
- Measuring supraharmonics (2.1- 14.9 kHz);
- Power-harmonics measurements;
- Simple and powerful recorder with internal storage (eMMC card), external microSD memory card (up to 32 GB);
- Data download via USB cable, SD card, USB flash drive, Ethernet;
- Automatic report creation in accordance with standards like EN 50160, IEEE 519, Codigo de Red, Osinergimin and specific custom-tailored reports or export to .xls, .csv for use with third-party software;
- Recording intervals: 200 ms (with special profile), 1 s ... 2 h (user selectable or fixed defined inside profile);
- Two independent recording intervals (per energy/demand and other values) for a userdefined profile;
- Independent recording periods (unlimited) for predefined profiles;
- Averaging intervals: avg, min, max, avgon;
- Advanced data analysis with software MPVision;
- CAT IV 600 V / CAT III 1000 V overvoltage category;
- Direct connection to 1500 DC system by using S 2149 attenuator;
- Waveform/inrush recorder, which can be triggered on event/alarms/level; transient recorder for phase lines (voltage or current) with level or envelope trigger selection running simultaneously with the general recorder;
- Support for DC, 50/60 Hz, 400 Hz system frequency and VFD mode;
- 4 voltage channels with wide measurement range: up to 1000 VRMS, CAT III / 1000 V, with support for MV and HV systems;
- 4 current channels with support for automatic clamp recognition and range selection;
- Compliance with IEC 61557-12 and IEEE 1459 (combined, fundamental, nonfundamental power) and IEC 62053-21 (energy);
- 10,1'' TFT colour touchscreen;
- Advanced communication options include USB Type-C, 10/100/1000 Mbit/s Ethernet interface, certified Wi-Fi 802.11 ac/a/b/g/n, Bluetooth 4.2/BLE;
- PC software MPVision provides an easy way to download, view and analyse measured data or print reports.

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MI2992

– TECHNICAL SPECIFICATIONS

FUNCTION		
Voltage inputs	**AC+DC**	
Number of inputs	5 (3 phase, 1 neutral, 1 Pe)	
Nominal voltage range		
Max. voltage input	1000 Vrms / 1000 Vdc (1414 Vpk)	
Nominal voltage range	Wye and single-phase variable	
	Delta variable	
	IEC 61000-4-30 Class A compliance for nominal voltages (Udin) 50 – 690 V	
Input impedance	20 MΩ between P-P, P-N, P-Pe and N-Pe	
Measuring range		
Sampling frequency	40 kSamples/sec	
Resolution	24-bit synchronous sampling on 9 channels	
Bandwith	DC … 20 kHz	
Mains frequency range	42,5 ... 69,0 Hz ±10 mHz	
	5 ... 130 Hz ± 10 mHz (VFD)	
	335,0 ... 465,0 Hz ± 100 mHz	
Current inputs	**AC+DC**	
Number of inputs	4 (3 phase and 1 neutral)	
Input voltage	1 Vrms @ CF 3	
Max, input voltage	30 Vrms	
Input impedance	101 kΩ	
FUNCTIONS	**MEASURING RANGE**	**ACCURACY**
Power (P, Q, S)	Depends on voltage and selected clamps	IEC 61557-12 Class 1
Power (PF)	Depends on voltage and selected clamps	IEC 61557-12 Class 0.5
Energy (Ep)	Depends on voltage and selected clamps	IEC 62053-21 Class 1
Energy (Eq)	Depends on voltage and selected clamps	IEC 62053-23 Class 2
Harmonics (DC ... 63rd) @ 50/60 Hz	0 ... 20 % of nom. voltage	IEC 61000-4-7 Class I
Interharmonics (1 ... 63rd) @ 50/60 Hz	0 ... 20 % of nom. voltage	IEC 61000-4-7 Class I
Flicker	0.2 ... 10	IEC 61000-4-15 Class F1
Mains signalling	0 ... 15 % of nom. voltage	IEC 61000-4-30 Class A
Unbalance	Voltage: 0 ... 5 %	
	Current: 0 ... 20 %	
Temperature	-10 ... 85 °C	±0.5 °C
Dips, swell	10 ... 150 % of nom. voltage	±0.2 % of nominal voltage
		±1 cycle
Interrupts	0 ... 10 % of nom. voltage	±1 cycle
Recorders		
Memory	6 GB internal eMMC, external microSD of up to 32 GB supported	
General recorder		
Integration period	200 ms, 1 s … 2 h	
Recorded signals	Minimal, maximal, average and average ON value per interval, including	
	- Voltage events (dip, swell, interrupt)	
	- Custom alarms (up to 10 programmable alarms)	
	- Signalling (up to two selectable frequencies)	
	- Transients	
	- Inrush	
	- RVC	
Duration	> 1 year (depends on size of SD card at 10 min registration period)	
Waveform recorder		
Duration	Up to 10 seconds duration and 1 seconds pretrigger of voltage and current waveform of up to 1500 records	
Trigger	Voltage events, custom alarms,	
	Current level (inrush), time interval	
Transient recorder		
Sampling rate	40 kSamples/sec	
Duration	500 ms of voltage / current waveforms	
Trigger	Envelope or level trigger	
General		
Display	Colour 10.1" IPS (LCD) with backlight, 1280 x 800 dots	
Communication	USB Type-A, USB Type-C, Ethernet, RS-232, Wi-Fi, Bluetooth	
Time synchronisation	GPS receiver (A 1355)	
Power supply	100 V … 500 V ±10 % (90 V … 550 V), 45 Hz … 65 Hz	
Battery	Li-ion, 14.8 V @ 4400 mAh	
Overvoltage category	CAT IV 600 V / CAT III 1000 V	
Weight	2,5 kg	
Dimensions	320 x 230 x 60 mm	



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ORDERING INFORMATION



MI 2992 Advanced set (AD)

- Instrument MI 2992 Power Analyser
- 4x A 1502 Mini current clamp-flexible 30/300/3000 A, Dia=140 mm
- 4x A 1778 Test probe, Black - Magnet tip
- A 1297 Crocodile clip, Brown
- A 1013 Crocodile clip, Black
- A 1547 Crocodile clip, Grey
- A 1309 Crocodile clip, Green
- A 1310 Crocodile clip, Blue
- A 1459 2M Test lead, BLK/BLU/GRN/BRN/GRY, 2m, 0.75mm²
- A 1354 Temperature probe
- 2x A 1811 Test lead, Red, 0.4m, 0.75mm² - CAT IV
- A 1851 Power cable, Type C/2x banana connector
- A 1812 USB cable type C/A
- A 1767 UTP CAT5 ethernet cable
- A 1776 Hard case, Size M for MI 2992
- PC SW MPVision
- Instruction manual
- Calibration certificate



MI 2992 Advanced set (EU)

- 4x A 1227 Current clamp-flexible 30/300/3000 A, Dia=140 mm (instead of A 1502 flexible current clamps)



MI 2992 Advanced set (ST)

- Without flexible current clamps

Scan the QR code scan the QR code for MI2992 optional accessories .

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